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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/805,268	03/13/2001	James T. Whitehead	C4-702	3197
	26799 75	590 02/13/2003			
		EPARTMENT		EXAM	INER
		: SECURITY SERVICE CENTER ROAD	ES	PREVIL,	DANIEL
-	BOCA RATO				
				ART UNIT	PAPER NUMBER
				2632	
				DATE MAILED: 02/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)---

	Application No.	Applicant(s)					
•	09/805,268	WHITEHEAD, JAMES T.					
Office Action Summary	Examiner	Art Unit					
	Daniel Previl	2632					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 13 M	March 2001						
	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrav	vn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:		, (,					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plonsky (US 5,049,857) in view of Herman et al (US 5,406,262).

Regarding claims 1, 17, Plonsky discloses first and second field generators (power amplifier 21c, pedestal 6 and power amplifier 22c, pedestal 7), each having a respective antenna for generating an electromagnetic field in a detection zone defined between antennas (coils) (fig. 1; fig. 2; col. 6, lines 20-48); at least one of field generator (a control system and detection assembly 8 connected to the power amplifiers 21, 22c provides overall control of the operation) being responsible to a presence of at least two electronically detectable tags in detection zone (makes a determination as to the presence in the zone 3 of articles 2 bearing tags 4 having a valid markers 5) (col. 5, lines 42-49).

Plonsky discloses every feature of the claimed invention but fails to explicitly disclose varying an intensity of at least one electromagnetic fields so that only one electronically detectable tags is detected in electromagnetic field.

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However, Herman discloses the step of adjusting the intensity of magnetic field within the surveillance zone to detect the tag 14 (col. 2, lines 15-63).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Herman in Plonsky. Doing so would detect accurately the presence of a plurality of tags without interfering with each other within a surveillance zone.

Regarding claim 2, the above combination discloses all the limitations in claim 1 and Herman further discloses the step of adjusting amplitude of electric power delivered to the antenna of the field generator producing electromagnetic field (adjusting the amplitude of current to provide magnetic field the intensity range within the surveillance zone) (col. 3, lines 1-25).

Regarding claim 3, Plonsky discloses electromagnetic fields in response to a receipt of corrupted data from at least one of two electronically detectable tags in detection zone (magnetic energy including the perturbation energy created by the presence of any markers 5 in the zone 3) (col. 5, lines 33-41).

Regarding claims 4-5, 10, Plonsky discloses a controlling means for detecting the presence of at least two electronically detectable tags in detection zone and for varying the intensities of electromagnetic fields in response to detection (control system 8 provides control in response to the transmitted and received magnetic energy to the presence in the zone 3 of articles 2 bearing tags 4 having a valid makers, adjustment the signal levels) (col. 5, lines 42-49; col. 6, lines 36-48).

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Regarding claim 6, the above combination discloses all the limitations in claim 1 and Herman further discloses one of field generators varies an intensity of a second one of electromagnetic fields in response to the presence of at least two electronically detectable tags in detection zone (col. 5, lines 36-63). Same motivation as claim 1.

Regarding claim 7, the above combination discloses all the limitations in claim 1 and Herman further discloses electromagnetic fields is varied in inverse proportion to each other (the intensity of the magnetic field provided by the coil 20 is strongest wherein the intensity of the coils 10 is the weakest) (col. 5, lines 41-51). Same motivation as claim 1.

Regarding claim 8, the above combination discloses all the limitations in claim 1 and Herman further discloses an outer perimeter of each of electromagnetic fields is defined by a minimum field intensity necessary to detect one of electronically detectable tags (perimeter is inherently included in the surveillance zone 26) (col. 5. col. 58-68; col. 6, lines 1-18). Same motivation as claim 1.

Regarding claim 9, the above combination discloses all the limitations in claim 1 and Herman further discloses a portion of perimeters of each of electromagnetic fields substantially abut each another (fig. 3, col. 5, lines 30-35). Same motivation as claim 1.

Regarding claims 11, 12, the above combination discloses all the limitations in claim 1 and Herman further discloses tags 14 in the surveillance zone 26, transmitter 10 adjust the intensity of electromagnetic fields where the electromagnetic

field is the weakest within the perimeter of the associated electromagnetic field (col. 5, lines 36-63). Same motivation as claim 1.

Regarding claims 13, 14, the above combination discloses all the limitations in claim1 and Herman further discloses one of electromagnetic field is varied in both small and large step (strong and weak) (col. 5, lines 35-51). Same motivation as claim 1.

Regarding claim 15, although, the above combination discloses all the limitations set forth in claims but fails to specify third and fourth field generators wherein third antenna is located vertically above first and second; and fourth and fourth antenna is located vertically below first, second and third antenna; electromagnetic field by third and fourth antenna are perpendicular to the fields of first and second antennas. Since, Plonsky discloses a plurality of generators associated with coils (fig. 1-fig. 2). It would have been obvious to any skill artisan at the time the invention was made to add more field generators as desired and place antennas in any position as desired to detect accurately the presence of a plurality of tags without interfering with each other within a surveillance zone.

Regarding claim 16, Plonsky discloses no wires connect each of field generators to one another and no wires connect each of antennas to one another (fig. 1).

Regarding claim 18, Plonsky discloses electromagnetic fields in response to a receipt of corrupted data from at least one of two electronically detectable tags in

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detection zone (magnetic energy including the perturbation energy created by the presence of any markers 5 in the zone 3) (col. 5, lines 33-41).

Regarding claim 19, the above combination discloses all the limitations in claim 1 and Herman further discloses varying an intensity of a second one of electromagnetic fields in response to the presence of at least two electronically detectable tags in detection zone (col. 5, lines 36-63). Same motivation as claim 1.

Regarding claim 20, the above combination discloses all the limitations in claim 1 and Herman further discloses electromagnetic fields is varied in inverse proportion to each other (the intensity of the magnetic field provided by the coil 20 is strongest wherein the intensity of the coils 10 is the weakest) (col. 5, lines 41-51). Same motivation as claim 1.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Crossfield (US 6,486,655) discloses a magnetic position sensing techniques. McGinn (US 5,130,697) discloses a method and apparatus for shaping a magnetic field.

Bettine (US 6,400,273) discloses an EAS system with wide exit coverage and reduced over-range.

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Issacman et al. (US 6,127,928) discloses a method and apparatus for locating and tracking documents and other objects.

Tyren (US 5,760,580) discloses a method for excitation and detection of magnetic elements by a mechanical resonance.

Tyren (US 6,417,771) discloses a sensor, a method and system for remote detection of objects.

Granovsky (US 5,276,430) discloses a method and electromagnetic security system for detection of protected objects in a surveillance zone.

Weaver (US 5,703,566) discloses an anti-shoplifting security system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Previl whose telephone number is 703 305-1028. The examiner can normally be reached on Monday-Thursday. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel WU can be reached on 703 308-6730. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872-9314 for regular communications and 703 872-9315 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305-4700.

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Daniel Previl Examiner Art Unit 2632

DP February 6, 2003

> DANIEL J.WU PRIMARY EXAMINER

2/9/03